



# CREDIT CARD TRANSACTION OPEN INTERFACES

## Department of Transportation DELPHI Program



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## Document Control

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### Reviewers

Name	Position
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### Distribution

Copy No.	Name	Location
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2		
3		
4		

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## Introduction

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### Purpose

The purpose of this document is to describe the DELPHI Open Interfaces used for the Oracle Payables application and requirements for the corresponding tables. Most of the information in this document has been referenced from the **Release 11 Oracle Payables Users Guide and Oracle Payables Technical Reference Manual**. More details about the usage, tables, and reports of the API's can be found in these manuals.

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### Scope

The scope of this document addresses the DELPHI open interface requirements for the Oracle Credit Card Open Interface. The following topics are covered in this document:

- General Guidelines
- Credit Card Transaction Import

The responsibility for developing the contents of items defined within this document resides with the DELPHI Conversion and Interface Group in close coordination with the DOT Program Management Team.

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### Payables Open Interfaces

The following Open Interfaces are included with the Oracle Payables Applications:

- Credit Card Transaction Interface
- Invoice Import Interface
- Open Interface Import
- Purchase Order Matching

Of the above, the following are the current DELPHI Open Interfaces being used:

- Open Interface Import
- Credit Card Transaction Interface
- Purchase Order Matching

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### Related Documents

1. Release 11 Oracle Payables Users Guide
2. Release 11 Oracle Payables Technical Reference Manual

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## General Guidelines

Use the guidelines listed below when interfacing data to the DELPHI Open Interfaces.

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### IP Address

Interface files will be sent to the DELPHI Server via File Transfer Protocol (FTP). The IP address for the DELPHI Interface Server is;

- Delphi-api.jccbi.gov

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### File Directory Path

The following DELPHI server directories will be used:

```
-ftp
  -active
    -<OA>
      -global
        -prod (production)
          -inbound
          -outbound
        -test (test)
          -inbound
          -outbound
```

**Note: The inbound area is where all interface files will be placed. The outbound area is where edit files such as vendor(supplier) and Code Combination will be placed.**

---

### File Name

The file naming convention is:

- Interface type\_Interface key\_filename\_date\_time.dat (example: *po\_ctt\_myfile\_d052699\_t120000.dat*) or
- Interface type\_Interface key\_filename\_date\_time.gz (example: *po\_ctt\_myfile\_d052699\_t120000.dat.gz*)

**Note: The file extension must be .dat or .gz. If you choose to send a file but don't want the file processed yet, change the extension to something other than .dat or .gz. The interface code table will be available in coming weeks.**

---

## File Format

The file format will be variable length records delimited by ‘|’ (pipe symbol).

**Note: Open Interfaces may contain more than one table. When creating open interface records, build them as if the elements in all tables are part of a single record in an end-to-end fashion.**

---

## File Compression

File may be sent in a “zipped” format, using one of the following ZIP utilities;

- PKZIP
- GZIP

**Note: DELPHI will use the PKZIP utility to un-zip interface files. Any zip utilities must be compatible with PKZIP.**

---

## Numeric Decimal Data

Include decimal points for numeric decimal type data (e.g., amount, hours, rate, percentage, etc.);

- Thirteen digit decimal numeric amount;  
✓ Example format = 000000012345.67

If the data is signed numeric, include a leading sign character;

- Thirteen digit negative signed numeric amount;  
✓ Example Format = -00000012345.67
- Thirteen digit positive signed numeric amount  
✓ Example Format = 00000012345.67

---

## Alphanumeric Data

Alphanumeric (VARCHAR2) data type columns are case sensitive.

---

## Date Format

One default date format will be used.

- DD-MON-YYYY
  - ✓ (DD – Numerical day of the month)
  - ✓ (MON – Alphabetic month abbreviation, capitalized [JAN, FEB, MAR, APR, etc.]
  - ✓ (YYYY – Numerical year, century included)

---

## Table Columns

- **NOT NULL** Columns - You must enter values for all NOT NULL columns (labeled "Y" in the "Not Null" column of the table) in the interface tables to successfully save your data in the interface tables.
- **NULL** Columns – A NULL column in the interface table does not require a value for Transaction Import to successfully create transactions from the records in the table (these are labeled "N" in the "Not Null" column of the table).

There are several types of NULL columns:

- Required – These columns are NULL only because they are not required for all transactions. They are required, however, depending on the type of transaction. If you do not enter a valid value in a required field, the record will be rejected during import.
- Conditionally Required – These columns requires you to enter values only if you have entered a value in another column on which the column is dependent.
- System Assigned – These columns are always NULL and should never be populated because they are used by the Transaction Import program.
- Not Used – These columns are not used for import. You should leave these columns NULL for the records you load into the table.

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## Disclaimer

This document is developed and maintained by the DELPHI Project Team and is intended to identify data element requirements for the DELPHI Open Interfaces. It is not intended to replace or supersede any Oracle Open Interface documentation. The Oracle Open Interface documentation may be required for more detailed information regarding edits and possible values.

## Credit Card Transaction Import

Use the Credit Card Transaction Interface Table to load transaction data from your credit card issuers into your Payables system. When you submit the Credit Card Transaction Validation and Exception Report, for records where the CREATE\_DISTRIBUTION\_FLAG is Y, Payables uses the data in the AP\_EXPENSE\_FEED\_LINES\_ALL table to create distributions with proper accounts in the AP\_EXPENSE\_FEED\_DISTS\_ALL table. Payables uses data in this table to confirm transactions with your employees and managers. After employees and managers have verified and approved the transactions, you submit the Credit Card Invoice Interface Summary to import the data into the Payables Open Interface tables and optionally summarize the data by GL Account. You can then submit the Payables Open Interface Import Program to create invoices from the data.

### AP\_EXPENSE\_FEED\_LINES\_ALL

Num	Column Name	Type	Not Null	Comments
<b>1</b>	<b>CARD_PROGRAM_NAME</b>	<b>VARCHAR2(80)</b>	<b>Y</b>	<b>Required</b>
<b>2</b>	<b>CARD_NUMBER</b>	<b>VARCHAR2(80)</b>	<b>Y</b>	<b>Required</b>
3	REFERENCE_NUMBER	VARCHAR2(240)	N	Optional
4	ALT_REFERENCE_NUMBER	VARCHAR2(240)	N	Optional
5	CUSTOMER_CODE	VARCHAR2(240)	N	Optional
<b>6</b>	<b>AMOUNT</b>	<b>NUMBER</b>	<b>Y</b>	<b>Required</b>
7	ORIGINAL_CURRENCY_AMOUNT	NUMBER	N	Optional
8	ORIGINAL_CURRENCY_CODE	VARCHAR2(15)	N	Optional
9	POSTED_CURRENCY_CODE	VARCHAR2(15)	N	Optional
10	CURRENCY_CONVERSION_RATE	NUMBER	N	Optional
11	TRANSACTION_DATE	DATE	N	Optional
<b>12</b>	<b>POSTED_DATE</b>	<b>DATE</b>	<b>Y</b>	<b>Required</b>
13	RECORD_TYPE	VARCHAR2(25)	N	Optional
14	CREATE_DISTRIBUTION_FLAG	VARCHAR2(1)	N	Optional
15	MERCHANT_NAME	VARCHAR2(80)	N	Optional
16	MERCHANT_NUMBER	VARCHAR2(80)	N	Optional
17	CARD_CODE_VALUE	VARCHAR2(80)	N	Optional
18	INDUSTRY_CODE1	VARCHAR2(80)	N	Optional
19	INDUSTRY_CODE2	VARCHAR2(80)	N	Optional
20	ALT_MERCHANT_NUMBER	VARCHAR2(80)	N	Optional
21	MERCHANT_ADDRESS1	VARCHAR2(35)	N	Optional
22	MERCHANT_ADDRESS2	VARCHAR2(35)	N	Optional
23	MERCHANT_ADDRESS3	VARCHAR2(35)	N	Optional
24	MERCHANT_ADDRESS4	VARCHAR2(35)	N	Optional
25	MERCHANT_CITY	VARCHAR2(25)	N	Optional
26	MERCHANT_PROVINCE_STATE	VARCHAR2(25)	N	Optional
27	MERCHANT_POSTAL_CODE	VARCHAR2(20)	N	Optional
28	MERCHANT_COUNTRY	VARCHAR2(25)	N	Optional
29	MERCHANT_PHONE	VARCHAR2(25)	N	Optional
30	SHIP_FROM_POSTAL_CODE	VARCHAR2(25)	N	Optional
31	SHIP_FROM_COUNTRY	VARCHAR2(25)	N	Optional
32	SHIP_TO_POSTAL_CODE	VARCHAR2(25)	N	Optional
33	SHIP_TO_COUNTRY	VARCHAR2(25)	N	Optional
34	TAX_PAID_FLAG	VARCHAR2(1)	N	Optional
35	TAX_AMOUNT	NUMBER	N	Optional
36	TAX_RATE	NUMBER	N	Optional

Num	Column Name	Type	Not Null	Comments
37	TAX_TYPE	VARCHAR2(25)	N	Optional
38	ALT_TAX_PAID_FLAG	VARCHAR2(1)	N	Optional
39	ALT_TAX_AMOUNT	NUMBER	N	Optional
40	ALT_TAX_RATE	NUMBER	N	Optional
41	ALT_TAX_TYPE	VARCHAR2(25)	N	Optional
42	FREIGHT_AMOUNT	NUMBER	N	Optional
43	DUTY_AMOUNT	NUMBER	N	Optional
44	MERCHANT_BUSINESS_TYPE	VARCHAR2(80)	N	Optional
45	MERCHANT_OWNER_TYPE	VARCHAR2(80)	N	Optional
46	PRODUCT_CODE	VARCHAR2(80)	N	Optional
47	ITEM_DESCRIPTION	VARCHAR2(240)	N	Optional
48	ITEM_QUANTITY	NUMBER	N	Optional
49	ITEM_UOM	VARCHAR2(80)	N	Optional
50	EXTENDED_ITEM_AMOUNT	NUMBER	N	Optional
51	DISCOUNT_INDICATOR	VARCHAR2(1)	N	Optional
52	DISCOUNT_AMOUNT	NUMBER	N	Optional
53	DESCRIPTION	VARCHAR2(240)	N	Optional
54	REJECT_CODE	VARCHAR2(25)	N	Optional
55	<b>ORG_ID</b>	<b>NUMBER(15)</b>	<b>Y</b>	<b>Required</b>
56	ATTRIBUTE_CATEGORY	VARCHAR2(150)	N	Optional
57-86	ATTRIBUTE1-30	VARCHAR2(150)	N	Optional

---

### 1. CARD\_PROGRAM\_NAME VARCHAR2 (80)

*Required Field*

The credit card program name. General format is the 16-byte credit card number preceded by 3 zeroes.

**Validation:** Must exist in AP\_CARD\_PROGRAMS\_ALL.CARD\_PROGRAM\_NAME.

---

### 2. CARD\_NUMBER VARCHAR2 (80)

*Required Field*

The number of the credit card that was used for the transaction.

**Validation:** None

---

### 3. REFERENCE\_NUMBER VARCHAR2 (240)

*Optional Field*

Reference or unique transaction number.

**Validation:** None

---

### 4. ALT\_REFERENCE\_NUMBER VARCHAR2 (240)

*Optional Field*

Alternate reference number.

**Validation:** None

**5. CUSTOMER\_CODE** VARCHAR2 (240)

---

*Optional Field*

Customer Code.

**Validation:** None

**6. AMOUNT** NUMBER

---

*Required Field*

Amount of the transaction.

**Validation:** You must load the amount as either a positive or negative number. For example if you are loading a credit, load the transaction amount as a negative number.

**7. ORIGINAL\_CURRENCY\_AMOUNT** VARCHAR2 (240)

---

*Optional Field*

Original Currency Amount.

**Validation:** None

**8. ORIGINAL\_CURRENCY\_CODE** VARCHAR2 (15)

---

*Optional Field*

Original Currency Code

**Validation:** None

**9. POSTED\_CURRENCY\_CODE** VARCHAR2 (15)

---

*Optional Field*

Posted Currency Code.

**Validation:** The posted currency code of the transaction should be the same as the currency of the credit card program.

**10. CURRENCY\_CONVERSION\_RATE** NUMBER

---

*Optional Field*

Currency Conversion Rate.

**Validation:** None

**11. TRANSACTION\_DATE** DATE

---

*Optional Field*

Transaction Date.

**Validation:** None

**12. POSTED\_DATE** DATE

---

*Required Field*

Date transaction posted by credit card issuer.

**Validation:** None

**13. RECORD\_TYPE** VARCHAR2 (25)

---

*Optional Field*

Record type

**Validation:** None

**14. CREATE\_DISTRIBUTION\_FLAG** VARCHAR2 (1)

---

*Optional Field*

Create Distribution Flag. If you want the Credit Card Transaction Validation and Exception Report to create default accounting distribution for the transactions you load you must enter a "Y".

**Validation:** Y or N

**15. MERCHANT\_NAME** VARCHAR2 (80)

---

*Optional Field*

Merchant Name

**Validation:** None

**16. MERCHANT\_NUMBER** VARCHAR2 (80)

---

*Optional Field*

Merchant Number

**Validation:** None

**17. CARD\_CODE\_VALUE** VARCHAR2 (80)

---

*Optional Field*

Card Code Value

**Validation:** None

**18. INDUSTRY\_CODE1** VARCHAR2 (80)

---

*Optional Field*

Industry Code #1

**Validation:** None

**19. INDUSTRY\_CODE2** VARCHAR2 (80)

---

*Optional Field*

Industry Code #2

**Validation:** None

**20. ALT\_MERCHANT\_NUMBER** VARCHAR2 (80)

---

*Optional Field*

Alternate Merchant Number

**Validation:** None

**21. MERCHANT\_ADDRESS1** VARCHAR2 (35)

---

*Optional Field*

Merchant Address #1

**Validation:** None

**22. MERCHANT\_ADDRESS2** VARCHAR2 (35)

---

*Optional Field*

Merchant Address #2

**Validation:** None

**23. MERCHANT\_ADDRESS3** VARCHAR2 (35)

---

*Optional Field*

Merchant Address #3

**Validation:** None

**24. MERCHANT\_ADDRESS4** VARCHAR2 (35)

---

*Optional Field*

Merchant Address #4

**Validation:** None

**25. MERCHANT\_CITY** VARCHAR2 (25)

---

*Optional Field*

Merchant City

**Validation:** None

**26. MERCHANT\_PROVENCE\_STATE** VARCHAR2 (25)

---

*Optional Field*

Merchant Province or State

**Validation:** None

**27. MERCHANT\_POSTAL\_CODE** VARCHAR2 (20)

---

*Optional Field*

Merchant postal code

**Validation:** None

**28. MERCHANT\_COUNTRY** VARCHAR2 (25)

---

*Optional Field*

Merchant Country

**Validation:** None

**29. MERCHANT\_PHONE** VARCHAR2 (25)

---

*Optional Field*

Merchant Phone

**Validation:** None

**30. SHIP\_FROM\_POSTAL\_CODE** VARCHAR2 (25)

---

*Optional Field*

Ship from postal code.

**Validation:** None

**31. SHIP\_FROM\_COUNTRY** VARCHAR2 (25)

---

*Optional Field*

Ship from country

**Validation:** None

**32. SHIP\_TO\_POSTAL\_CODE** VARCHAR2 (25)

---

*Optional Field*

Ship to postal code

**Validation:** None

**33. SHIP\_TO\_COUNTRY** VARCHAR2 (25)

---

*Optional Field*

Ship to country

**Validation:** None

**34. TAX\_PAID\_FLAG** VARCHAR2 (1)

---

*Optional Field*

Tax paid flag

**Validation:** None

**35. TAX\_AMOUNT** NUMBER

---

*Optional Field*

Tax Amount

**Validation:** None

**36. TAX\_RATE** NUMBER

---

*Optional Field*

Tax Rate

**Validation:** None

**37. TAX\_TYPE** VARCHAR2 (25)

---

*Optional Field*

Tax Type

**Validation:** None

**38. ALT\_TAX\_PAID\_FLAG** VARCHAR2 (1)

---

*Optional Field*

Alternate tax paid flag

**Validation:** None

**39. ALT\_TAX\_AMOUNT** NUMBER

---

*Optional Field*

Alternate tax amount

**Validation:** None

**40. ALT\_TAX\_RATE** NUMBER

---

*Optional Field*

Alternate tax rate

**Validation:** None

**41. ALT\_TAX\_TYPE** VARCHAR2 (25)

---

*Optional Field*

Alternate tax type

**Validation:** None

**42. FREIGHT\_AMOUNT** NUMBER

---

*Optional Field*

Freight Amount

**Validation:** None

**43. DUTY\_AMOUNT** NUMBER

---

*Optional Field*

Duty Amount

**Validation:** None

**44. MERCHANT\_BUSINESS\_TYPE** VARCHAR2 (80)

---

*Optional Field*

Merchant business type

**Validation:** None

**45. MERCHANT\_OWNER\_TYPE** VARCHAR2 (80)

---

*Optional Field*

Merchant owner type

**Validation:** None

**46. PRODUCT\_CODE** VARCHAR2 (80)

---

*Optional Field*

Product Code

**Validation:** None

**47. ITEM\_DESCRIPTION** VARCHAR2 (240)

---

*Optional Field*

Item Description

**Validation:** None

**48. ITEM\_QUANTITY** NUMBER

---

*Optional Field*

Item quantity

**Validation:** None

**49. ITEM\_UOM** VARCHAR2 (80)

---

*Optional Field*

Item Unit of Measure

**Validation:** None

**50. EXTENDED\_ITEM\_AMOUNT** NUMBER

---

*Optional Field*

Extended item amount

**Validation:** None

**51. DISCOUNT\_INDICATOR** VARCHAR2 (1)

---

*Optional Field*

Discount indicator

**Validation:** None

**52. DISCOUNT\_AMOUNT** NUMBER

---

*Optional Field*

Discount amount

**Validation:** None

**53. DESCRIPTION** VARCHAR2 (240)

---

*Optional Field*

Description

**Validation:** None

**54. REJECT\_CODE** VARCHAR2 (25)

---

*Optional Field*

Reject code

**Validation:** None

**55. ORG\_ID** NUMBER

---

*Required Field*

Enter the ORG\_ID of your organization. See Glossary of Terms.

**Validation:** Must be a valid value in HR\_ORGANIZATION\_UNITS.ORGANIZATION\_ID

**56. ATTRIBUTE\_CATTEGORY** VARCHAR2 (150)

---

*Optional Field*

Descriptive Flexfield structure defining column

**Validation:** None

**57-86. ATTRIBUTE1-30** VARCHAR2 (150)

---

*Optional Field*

Descriptive Flexfield segment columns

**Validation:** None

---

## Glossary of Terms

Listed below are some of the terms found in the document, along with their definitions.

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### Account Code Combinations

The DELPHI Account Code Combination Structure is made up of ten segments. Listed below are the segments, meaning, and format and length.

Segment 1	Fund	VARCHAR2 (10)
Segment 2	Budget Year	VARCHAR2 (4)
Segment 3	BPAC	VARCHAR2 (10)
Segment 4	Org Code	VARCHAR2 (10)
Segment 5	Object Class	VARCHAR2 (5)
Segment 6	GL Account	VARCHAR2 (8)
Segment 7	Reserved for future use	VARCHAR2 (10)
Segment 8	Reserved for future use	VARCHAR2 (10)
Segment 9	Reserved for future use	VARCHAR2 (10)
Segment 10	Reserved for future use	VARCHAR2 (10)

Data Value example:

1111111111.2222.3333333333.4444444444.55555.66666666.0000000000.0000000000.0000000000.0000000000

**Note: Data value must contain segment delimiter (period) between each segment.**

---

### Data Type

Each column within the template is designated by data type. The most common data types are;

- DATE – A DATE column contains date information and must be masked to a valid format such as DD-MON-YYYY.
- NUMBER – A NUMBER column consists of digits, signs, and decimal points.
- VARCHAR2 – A VARCHAR2 column contains a sequence of letters, numbers, punctuation marks and special characters.

---

### Delimited File Format

A file built with a separator between each data element. A '|' (pipe symbol) delimited file would contain the character '|' between each data element. The absence of a value for a data element should be denoted with a delimiter. An example would be;

Field 1    Field 2    Field 4  
12345678|ABCDEFGH||ABCDEFGH|

---

## Org-id

Org\_id is the identification code of the organization to which the user belongs.

Org_id	Organization Name
2	National Highway Traffic Safety Administration
3	Federal Highway Administration
4	Office of Inspector General
5	Federal Aviation Administration
6	United States Coast Guard
7	Transportation Administration Service Center
8	Federal Railroads Administration
9	Federal Transit Administration
10	Volpe national Transportation Systems Center
11	Maritime Administration
12	Research and Special Programs Administration
13	Surface Transportation Board
14	Office of the Secretary of Transportation
15	DOT Payroll
16	Bureau of Transportation Statistics
1	Department of Transportation
17	Federal Motor Carrier Safety Administration

---

## Open Interface

An interface program within the Oracle application that can be used to bring data from external sources into the Oracle Applications. These interface programs are supported by the application and provide for complete validation and transformation of data to the required format of the destination application.

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## Oracle Tables

Oracle Relational Database Management System stores information within tables. Tables consist of columns and rows. Each column contains one kind of information. The following convention is used to name columns: COLUMN\_NAME. The information is listed in rows across the columns creating a relationship between the columns and the rows in the form of a grid.

---

## Set of Books Id

SET\_OF\_BOOKS\_ID is the identification code of the Operating Administration to which the user belongs.

<b>SET OF BOOKS ID</b>	<b>Set of Books Name</b>
1	National Highway Traffic Safety Administration
2	Federal Highway Administration
3	Office of Inspector General
4	Federal Aviation Administration
5	United States Coast Guard
6	Transportation Administrative Services Center
7	Federal Railroad Administration
8	Federal Transit Administration
9	VOLPE National Transportation Systems Center
10	Maritime Administration
11	Research and Special Programs Administration
12	Surface Transportation Board
13	Secretary of Transportation
15	Bureau of Transportation Statistics
16	Department of Transportation
17	Federal Motor Carrier Safety Administration



## Review and Sign-Off Sheet

### Credit Card Transaction Interface

SIGNATURE (Theresa Mengers):

DATE:

SIGNATURE (Teresa Ryser):

DATE:

SIGNATURE (J. B. Morgan):

DATE:

SIGNATURE (Robert Helms) :

DATE:

SIGNATURE (Walter Woodard) :

DATE:

SIGNATURE :

DATE:

SIGNATURE :

DATE: